

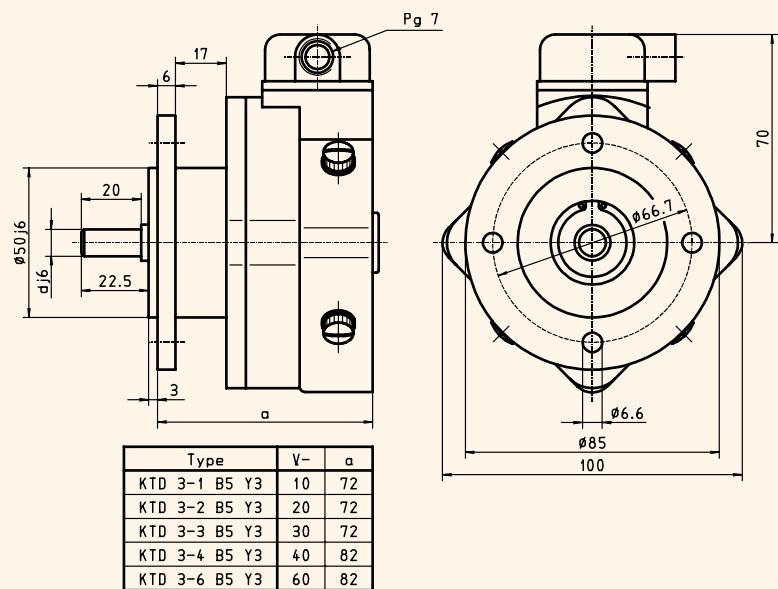
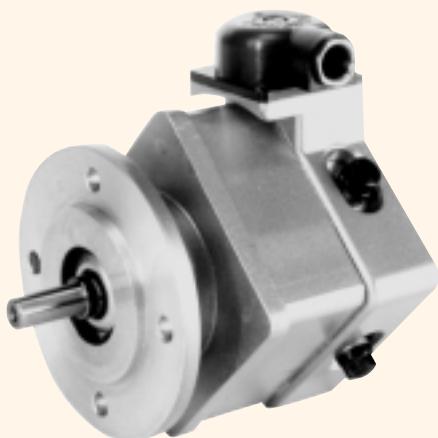
# DC tachogenerator

## KTD 3... B5 Y3, KTD 3... B10



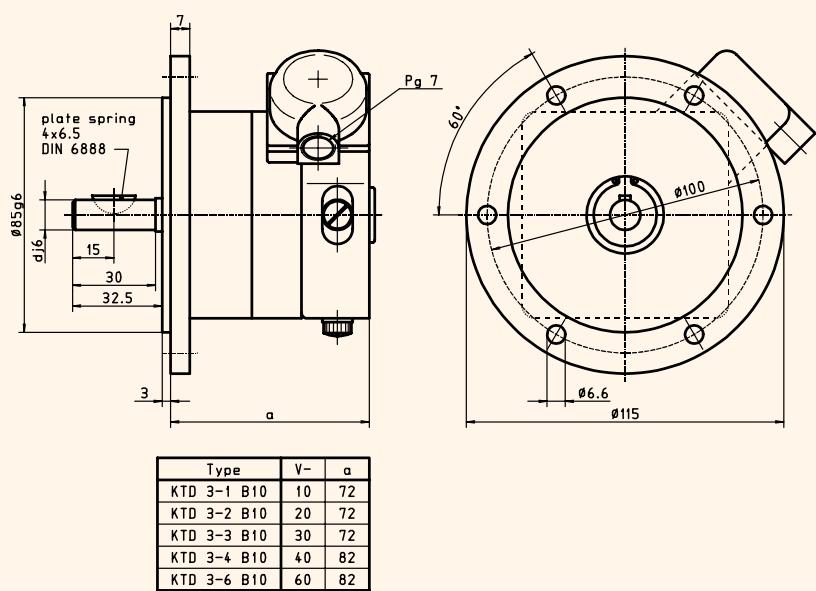
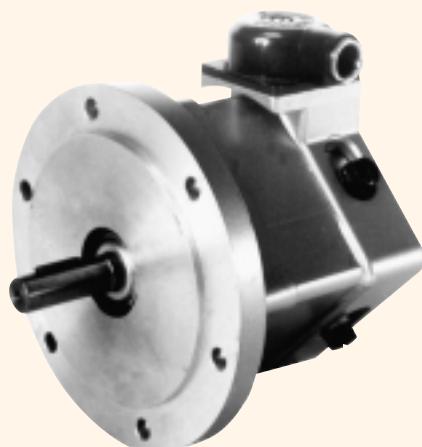
### Qualities:

- High reaction rate
- Large speed range
- Recognition of rotational direction
- Small percent ripple
- No power supply



**KTD 3... B5 Y3**

**drawing-no.: 023 - 28 Y 3**



**KTD 3... B10**

**drawing-no.: 015 - 7**

# DC tachogenerator

KTD 3... B 5 Y 3, KTD 3... B10



## Mechanical data:

Housing	light - alloy metal unpainted, steel zinced		
Design style	B 5, B10		
Protective class	IP 54 according to DIN 40 050, IEC 529		
Shaft diameter	KTD 3... B 5 Y 3	d	9 mm
	KTD 3... B10	d	11 mm
Mass moment of inertia		J	KTD 3-1 to KTD 3-3: 660 gcm <sup>2</sup> KTD 3-4 to KTD 3-6: 970 gcm <sup>2</sup>

## Electrical data:

referenced to 1000 rpm

Type	Rated voltage [ V ]	Rated current [ mA ]	max. current [ mA ]	Armature resistance [ Ohm ]	Upper speed limit [ rpm ]	Weight B 5 rotor and housing g	Weight B10 rotor and housing g
KTD 3-1 ...	10	10	100	45	6000	1100	1550
KTD 3-2 ...	20	10	80	170	6000	1100	1550
KTD 3-3 ...	30	10	80	170	6000	1100	1550
KTD 3-4 ...	40	10	80	220	4000	1300	1650
KTD 3-6 ...	60	30	80	200	3000	1300	1650

Polarity

dependent on rotation direction

Number of pole pair

2 = 4-poles

Number of grooves, segments

29

Grooves frequency

$f_N = 29 / 30 * n$

Reversing error

$\leq \pm 0,1\%$

Residual ripple

$\leq 0,4\%$

Linearity error

$\leq 0,15\%$

Regulation range lower limit

n<sub>R</sub>

0 rpm

Temperature drift (- 10 °C to + 100 °C)

$\pm 0,1\% / 10\text{ K}$  ( compensated )

Type of connection

terminal box, 2-poles

Isolation class

B

Carbon brushes

4 pieces AG 3 x 4 x 12

Carbon brushes life

approx. 20.000 hours of operation

Maintenance

after 10.000 hours in service

## Options:

- Without terminal box
  - With centrifugal switch
  - Silver track in the collector
  - Enhanced protective class
- cable - version